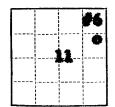
All sol'by & nox Petroleum to CKT, elne.

Scout Report sent out	
Noted in the NID File	
Location map pinned	_ 🗖
Approval or Disapproval Letter	
Date Completed, P. & A, or operations suspended	5/9/56 de but den
Pin changed on location map	
Affidavit and Record of A & P	
Water Shut-Off Test	
Gas-Oil Ratio Test	
Well Log Filed	

PLE NO 1. 4 18		and the second	
Entered to 1100 File		Checked by Chief	
Entered 100 Chinat		Copy NID to Field Office	
Location Visp Planed		Approval Letter	
Card Induced	<u> </u>	Disapproval Letter	
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GW YAVE OS OS Drille's Log No.	LOCAL	DBnd released State of Fee Land!	Micro.



(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land Office	Sal	1	Leke	City
Lease No	SL	9	14806	. <u>-</u>
Unit	Ber		**	

10 64

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	 SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	 SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	 SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	 SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	 SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	 SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

4--41 14

			~~~~	19.
Well No is located	d <b>1929</b> ft.	from $\binom{N}{S}$ line a	and 650 ft. from	E line of sec. 11
C 5E 4 Sec. 11 (4 Sec. No.)	178	256	8.L.M.	_
(1/4 Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	
Doc "X"		Grand		- Utah
(Field)	(Co	ounty or Subdivision)	(Sta	te or Territory)

The elevation of the derrick floor above sea level is _______ ft.

#### **DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

To drill a well with rotary tools at the above designated location to sufficiently test the introde formation. Approximately 150' of 6-5/8" 0.B. surface casing will be set and canented to the surface, and pressure tested. A 7-7/8" hole will be drilled to R.T.B. and in the event that subsequent testing warrants setting a production string, 5-1/2" 0.B. casing will be set.

I understand that this plan of work must receive approval in writing by the	Geological Survey before operations may be commenced.
Company The American Metal Company,	Linited
Address 412 Shall Dullding	By A. Carler, n.
1845 Shermen St.	
U. S. GOVERNMENT PRINTING OFFICE	Title Supervioles Petroleus Engineer

# THE AMERICAN METAL COMPANY, LIMITED

412 SHELL BUILDING 1845 SHERMAN STREET DENVER 3, COLORADO TELEPHONE CHERRY 4-4423

April 16, 1956

MAIN OFFICE 61 BROADWAY NEW YORK 6, N. Y.

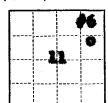
Mr. Herbert F. Smart Oil & Gas Conservation Commission Room 105 - State Capitol Bldg. Salt Lake City, Utah

Dear Mr. Smart:

Enclosed is an approved copy of U.S.G.S. Form 9-331a, "Notice of Intention to Drill" for the Bar "X" Unit No. 6 in Grand County, Utah.

> A. J. Carter, Jr (E.M.) Supervising Petroleum Engineer

AJC, Jr./eh Encl.



#### (SUBMIT IN TRIPLICATE)

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

;	Budget Bur Approval ex	eau 42-R358 pires 12-31-	.3. 55.
, Land Office	Salt	Lake	City
Lease No	SL O	64806	
Unit	Ber '	<b>*X</b> **	

# SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS.	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING.
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	
***************************************	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

							April %	, 19.36
V	/ell No	6	is located	<b>1920</b> ft	. from $N$ line as	nd <b>660</b> ft. fr	om [E] line of	sec. 11
	SS Sec.			1.78	25%	Saladia		
-	(⅓ Sec.	and Sec. No	o.)	(Twp.)	(Range)	(Meridian)		
	1	Box **	<b>X</b> **	(	Green		itah	
	(	Field)		(	County or Subdivision)		(State or Territory)	
							_	

The elevation of the derrick floor above sea level is ....... ft.

#### **DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Ran 8-5/8" O.B. surface pipe set at 162'. Comented with 100 sacks. Pressure tested surface pipe at 500 lbs. for 30 minutes and surface pipe held OK.

I understand that this plan of work must receive approval in writing	by the Geological Survey before operations may be commenced.
Company The American Motel Comp	my, Linked
Address 412 Shell Building	MADRAD
1845 Shermen St.	Bull. alen J.
Denver 3, Colorado	Pitle Supervising Potrology Engineer

# THE AMERICAN METAL COMPANY, LIMITED

412 SHELL BUILDING
1845 SHERMAN STREET
DENVER 3, COLORADO
TELEPHONE CHERRY 4-4423

April 30, 1956

MAIN OFFICE 61 BROADWAY NEW YORK 6, N. Y.

Mr. Herbert F. Smart Oil & Gas Conservation Commission Room 105 - State Capitol Bldg. Salt Lake City, Utah

Dear Mr. Smart:

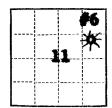
Enclosed is an approved copy of U.S.G.S. Form 9-331a, "Subsequent Report of Water Shut-off" on the Bar "X" Unit No. 6 in Grand County, Utah.

Yours very truly,

A. J. Carter, Ix. (5.4.)

Supervising Petroleum Engineer

AJC, Jr./eh Encl.



#### (SUBMIT IN TRIPLICATE)

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land Office	Sa	Lt	Lake	Cit
Lease No.	SL (	)64	1806	
Jnit	Bar	**3	Ki.	

(State or Territory)

### SUNDRY NOTICES AND REPORTS ON WELLS

	p. 101	Nay 16 , 19 5
		URE OF REPORT, NOTICE, OR OTHER DATA)
	1	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO CHANGE PLANS	X	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.
NOTICE OF INTENTION TO DRILL	. <b> </b>	SUBSEQUENT REPORT OF WATER SHUT-OFF

(Field) (County or Subdivision)

The elevation of the derrick floor above sea level is _____ft.

#### **DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Upon verbal approval of Mr. D. F. Russell, District Engineer in the Salt Lake City office, permission was given to dually complete this well by setting production packer in the 5-1/2" casing at 3175' with an Otis side door choke. This well will be dually completed with the Morrison formation producing through the tubing and the Dakota formation producing through the annular space.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The American Pietal Company, Limited

Address 412 Shell Building
1845 Sherman St.

Denver 3, Colorado

Title Supervising Petroleum Engine

#### CONDITIONS OF APPROVAL

- 1. The lessee or operator shall mark the derrick or well in a conspicuous place with the name of the operator, well number, the land office and serial number of the lease, and location of the well and shall take all necessary precautions to preserve these markings.
- 2. A conductor or surface string of casing shall be run and cemented from bottom to surface unless other procedure is expressly authorized by this approval. The conductor or surface string shall be of sufficient weight and length and have installed thereon the proper and necessary high pressure fittings and equipment to keep the well under control in case an unexpected flow of gas, oil or water is encountered.
- 3. All showings of oil or gas are to be adequately tested for their commercial possibilities. All showings shall be properly protected by mud, cement, or casing so that each showing will be confined to its original stratum. Necessary precautions shall be taken to prevent waste or damage to other minerals drilled through and the U.S. Geological Survey, upon request, shall be furnished with carefully taken samples of such minerals as coal, potash, and salt.
- 4. Lessee's Monthly Report of Operations (Form 9-329) shall be filed in duplicate with the office of U. S. Geological Survey, P. O. Box 400, Casper, Wyoming, not later than the sixth of the succeeding month. The report should show for this well any change of status occurring within the particular month such as date drilling commenced, suspended, resumed or completed, total depth as of the end of the month, and if shut down the reason therefor.
- 5. Two copies of the log of this well on Form 9-330, or other acceptable form and when available two copies of all electrical logs, directional, diameter and temperature surveys of the hole shall be filed with the district engineer within 15 days after such information is received by operator on completion of the well whichever is earlier.
- The District Engineer, is F. Aussell, 306 Federal Align. Sell Lake City 1, Utah shall be notified on Form 9-331a in triplicate giving thereon all necessary details of the proposed operation or test for proper consideration and action sufficiently in advance of making casing or formation tests, shooting or acidizing, running or cementing casing, other than the surface or conductor string, to permit approval of the notice prior to date of proposed work.

50-064866

# THE AMERICAN METAL COMPANY, LIMITED

412 SHELL BUILDING
1845 SHERMAN STREET
DENVER 3, COLORADO
TELEPHONE CHERRY 4-4423

May 25, 1956

MAIN OFFICE 61 BROADWAY NEW YORK 6, N. Y.

Mr. Herbert F. Smart Oil & Gas Conservation Commission Room 105 - State Capitol Bldg. Salt Lake City, Utah

Dear Mr. Smart:

Enclosed is an approved copy of U.S.G.S. Form 9-331a, "Notice of Intention to Change Plans", on the Bar "X" Unit No. 6 in Grand County, Utah.

Yours very truly,

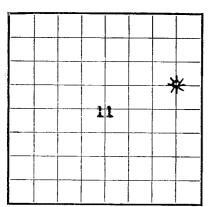
A. L. Carter, Jr. (6.N)

Supervising Petroleum Engineer

AJC, Jr./eh Encl.

7000 x 5/28/56

Form 9-330



U. S. LAND OFFICE Salt Lake City
SERIAL NUMBER 064807
LEASE OR PERMIT TO PROSPECT

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

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so far	as can be	determined f	rom all av	ailable rec	ords.	تنبر کا کر کرارہ	1 b		ione uncrean
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No 1	from 500	) (*		•	NT WATER	from	4		
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/* OD	14	8 rd	CF&I	3325	HOMEG		3078	31.28	Straig Straigs
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) - <del>V</del> M	<del></del>				CEMENT	NG RECORD	park	EX.	-rantag
Size	**************************************			<del></del>					
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2820 2870 2880 2930	28 26 29 29	70. 80 30,	50 g	mica pris Silt Sray Limy Shal tops and stas Shal with mand quar Bont Shal	e, bli e, trace a, bli e, bli e, bli e, trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace trace	abale, start about 18 abale, solvent 18 abale, s	(\$1, 00%, 00%, 00%, 00%, 00%, 00%, 00%, 00	Siling Si	lk to ly sl  i, ds  yrite t 5%  tra line ine ine ine ine ine ine ine ine ine	inoc.
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### FORMATION RECORD—Continued

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:			Er - Bent 10%-15%, trace pyrite,
e eging		24 J	lauconite & mice, poes and of the
3030	3050	20	Shale, Blk 80%, Sdy sh 15%, blk-dk gr.,
	*		Bent 5%, trace glauconite.
3054	3052	8	Circulated sample - Sand, It bra,
			VF-F gr, sub round to sub angular, con-
			siderable loose grains, mostly tight
o Aga		N.S.	few clusters with fair por. slight odor
			fair fluores on carbon tet cut 50% -
		-	Shele, 51k, 50%, mayor provide the state of
3062	3065	3	Sand, as above, w/small emt. of coal.
3005	3075	_{&gt;} 10	Semple predominantly coal - Sand as
4476	2300	26	above 107-15%.
3075	3100	25	Sd & abala, Shale, blk, 50-55%, Sd.
11 14 15 11 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	4 21 3		buff, white, sub angular to angular,
			coal 101.
3100	3140	₂ 40	Sh. blk 55%, Coal 20-25%, Bent 20%, few
J.L.VV	JUN	2.7	clusters of white sand as above with
			few loose grains of quartz.
3140	3150	10	Sh, dk gray, blk, 70%, Coal 15%, Bent-10
3155			Circulated sample, Sh, dk gray, 60%,
	***	0 <b>0</b> \$102   \$1600	Sd, buff-white, sub angular to sub rd,
			some clay filled & tight, in part fair
*		Tepsteen.	to good por, much angular chert, M-M
41.	Spanis (C. C.	The state of the s	gr, Sent 15%.
3155	3165	10	sh, 60%, sand as above 20%, Bent 15%.
31.67	ers maritimes in	y <b>≥</b> ()	Circulated sample, predom. sh, Bent 10%,
	da granca an	المهالي المراكدات المحاجد الأدراء الروا	3d as above with considerable rounded
	1	İ	quartz grains. No fluores.
3167	3170		As above. C'' and
31/0	14 . 3165 - 44	1 jang <b>15</b> - 17	Predominately blk shaley witzace of
es a m m	20.30	12 - 5	gray green shale, Bent 10%.
3185	3195	10	Shale blk 65%, 5% gray green sh, Bent
Jeptoner, Lo	र्वेद्ध सुद्ध प्राप्त		15%, sd. white, fine grain, sub angular,
	3205	(1.000 )	white clay coment in part. Shale bake 50%, blue green sh 20%, it
・フェナン ***。* ・・	3403	To the state of th	gray, tan sh 15%, Bent 10%, little sd
			as above.
3205	3220	15	Sd, greenish white, quartzitic in part,
ವ್ <b>ಕಾ</b> ಚೆವ್ ∵	94F @ 454 455	Alexander 1	many VF gr loose quartz grains, tightly
			cemented, looks very tight, considerable
			angular chart, 40%. Approx 10% ad,
		7777.44.0	white-buff F-M gr, sub round, tightly
$\frac{1}{2} \cdot \frac{1}{2} \log_{\mathbb{R}^{n}} (1 - \frac{1}{2}) = \frac{1}{2} \cdot \frac{1} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot $		The second secon	cemented w/waite clay, blk sh 35%,
	A Comment	:	green sh 15%.
3220	3247	<b>37</b> .00 03	Sh, blue 55%, First Red sh (3220-25)
			green 25%, Bent 15%, sd as above 5%.
3252	Clrculate	d, Coal 40%	sh-green 15%, blk 35%, Bent 10%, trace
			red-bru sh, approx 1% VF gr sd in sample
and the state of t	1		cemented in part with black gilsonite

		white	a-buit F	-N Sr, sub	round, tightly	•
		ceme	ited w/w	mind clay,	blk sh 35%,	
	To the Control of the	green	a sh 15%	• 0 5 8 W.		
3220	3247				<u>sh</u> (3220-25) as above 5%.	
3252	Circulated,				Bent 10%, tra	io is
		71			F gr sd in sam	
					lack gilsonice	
A Wight Control of the Control of th	and the same of th		materia		THE HE TO STORY HERE	
3237		the second secon	lated -			
3255		Circ	llared -	Same W/cos	4. S. GOVERNMENT PRINTING OFFICE	
TARA MATURI		HISTORY OF OIL OF		<b>.L</b> • • • • • • • • • • • • • • • • • • •	The second secon	. • 1
"sidetracked" or	for the work and its resulteft in the well, give its size	a complete history of the was. If there were any chance and location. If the well test for water, state kind of	ges made in ti	he casing, <b>state f</b> ull mited give date si	y, and if any casing was	•
The state of the s	10 CH 2013 Det 2013 10 CH 2013 10	FOMATION T	0 <b>P8</b> q 270q 1200	জুড়া হোলাক্ষ	\$61B0se	
e same de se		rger flectrie	Log - De		grad 	
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	alt Wash	IMPORTAINMVATE	r samde	3272'		
No. 3, <b>for</b> - gr	rrada to	Mar (Ae) No.	g, from :	3536	,	
No. 2. from	mi ² Zinkum in 1999	stávitáli No.	5, trem		) · · · · · · · · · · · · · · · · · · ·	
No. 1, fcom		के <u>बेरिया में क</u> िया - No.	4, from	/b	) in the property of the second secon	
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		miles completed				
The manu- torast Consumence to a	ions with a Re	the condition of the w	ell at above f byo Wed drilling	duction pac	cker set at	
151 3174°.	The Morrison	produces out	of the b	ubing and	che Dakota	
Locuti <b>che 3</b>	2/8; O-D- cmp; aution given becomitin	$m_{m{e}}$ and $m_{m{e}}$ of is a complete and compares $m_{m{e}}$	Subsective control of the control of	्र । । । । । । । । । । । । । । । । । । ।	Thypation the support	
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### FORMATION RECORD - Continued

From	To	Total Feet	Formation
3265	3270	5	Shale blk 40% - Green & white and red brn
			sh 25%, Coal 20%, Bent 10%, sdy sh & trace
			of sd, white VF gr.
3270	3280	10	Shale green & it reddish brn 25%, blk sh
			50%, Bent 15%, Coal 5%, trace sand clusters,
			quartz, F gr white.
3280	3330	50	Shale green & reddish brn 55%, blk 40%, very
			little red, trace lavender, Bent 5%, little
***		<b>.</b>	loose quartz grains & trace of coal.
3330	3 <b>38</b> 0	50	Shale blk 45%, V-colored reds becoming more
			abundant, 45%, Coal 5-10%, Bent 5%, sand
			& find quartz grains 3-5%.
3380			Circulated, Shale as above, very little
			sand, some quartritic tight w/slight fluores
3381	3396	15	on cut.  Core #1: Cut 15', recovered 15' - 4/24/56.
			2-1/2 sand, buff-white, quartzitic, very
			hard & tight, no odor; 12-1/2* shale - red,
			hard, tough, streaks of red & green mottled.
3396	3440	44	Shale, blk 35%, V-colored, green, red,
			lavender, white 50%, Bent 5%, sand, cosl
			& fine quartz grains 10%.
3440	3490	50	Shale, Blk 40%, V-colored 55%, trace sdy
			sh, Beat 5%, trace coal, sand & quartz gras.
3490	3540	50	Shale & sdy shale, V-colored 55%, Blk, 40%,
			trace coal & fine quartz grains.
3540	3570	30	Shale, V-colored, red, brn, lavender, green,
			60%, Blk 40%, little sdy shale (red),
			trace bent & coal.
3570	3610	40	Shale, as above w/few clusters fg & vf gr
	***	<b>~</b> #	sand and f-m gr clean quartz & trace of coal
3610	3635	25	Shale, V-colored 70%, Blk 30%.
3635	3642	7	Circulated at 3642, Sd & Sh, sd white, buff,
			F-M gr. sub ang. sub rd, mostly tight
			appearing with little showing fair por. 10%,
2642	2700	g a	Sh, V-colored 50%, Blk 40%.
3642	3700	58 70	Shale, V-colored 70%, B1k 30%.
3700 3770	3770	70 40	Shale, V-colored 70%, Blk 30%.
3770	3810	40	Sdy shale & sh, V-colored 70%, Blk 30% trace coal & bent.
3810	3845	35	
	J <del>04</del> J	2.7	Shale V-colored, 70%, Blk 30%.
3845			Circulated, sample mostly shale as above, sand, VF gr tan, buff, sub round, no
			fluores, 5%.
3850	<b>39</b> 00	50	Core #2: Cut 50' - recovered 41' - 5/1/56.
JUJU	<b>#700</b>	<i>3</i> 0	41' sd - 1t tan, 1t brn - F-mg, sub round -
			round, thin streaks of shale top 5'-tight
			at top becoming more porous toward base,
			no fluores.

THE AMERICAN METAL COMPANY, LIMITED

412 SHELL BUILDING 1845 SHERMAN STREET DENVER 3, COLORADO TELEPHONE CHERRY 4-4423

July 12, 1956

MAIN OFFICE 61 BROADWAY NEW YORK 6, N. Y.

noted Cott 7-16-56

Mr. Herbert F. Smart Oil & Gas Conservation Commission Room 105 - State Capitol Bldg. Salt Lake City, Utah

Dear Mr. Smart:

Enclosed is a copy of U.S.G.S. Form 9-330, "Log of Gas Well", for our Bar "X" Unit #6 in Grand County, Utah, together with Electrical Log and MicroLogging report on this well.

Yours very truly,

A./J. Carter, Jr

Supervising Petroleum Engineer

AJC, Jr./eh Encls.

## TERRA RESOURCES, INC.

March, 1970

Division of Oil and Gas Conservation

1588 West North Temple

Salt Lake City, Utah 84116

Re: Initial Report

Terra Resources, Inc.

Effective March 1, 1970, a reorganization of CRA, Inc., a Kansas corporation, occurred. Effective that date the Production and Exploration Divisions of CRA, Inc. were incorporated with the name Terra Resources, Inc. in the State of Delaware.

Attached hereto is Terra Resources, Inc.'s initial report. It covers operation of the leases indicated for the period beginning Earch 1, 1970.

Please address all future correspondence related to these leases as follows:

Terra Resources, Inc.
Taxation Department
Fourth National Bank Building
Tulsa, Oklahoma 74119

Very truly yours,

M. E. Krause, Controller

MEK:dm Attachment

FOURTH NAT'L. BANK BLDG, / TULSA, OKLAHOMA 74118 / PHONE 918-887-6621

THE FOLLOWING METERS WILL HAVE CALIBRATION / SETTLEMENT TESTS RUN ON THE DATES INDICATED. STARTING TIME WILL BE 0800 OR AS SPECIFIED BELOW AND AT THE OFFICE OF THE NORTHWEST PIPELINE GRAND JUNCTION DISTRICT YOU WILL BE NOTIFIED SHOULD ANY CHANGES OCCUR IN THIS SCHEDULE. IF YOU HAVE ANY QUESTIONS ABOUT THE SCHEDULE, CONTACT OR WRITE THE DISTRICT OFFICE.

METER CODE	WELL NAME	LOC	RUN	DAY	MO/YR	STARTING TIME
95772016	BAR X #15	06	02	18	12/85	0800
92002012	BAR X #4 175. 24 E. 18	06	12	1	11/85	T.D.
92003019	BAR X #6 CS 175. 25E. 11	06	12	13	11/85	1100
9200-5011	CRITTENDON #1 CASING 175.25 12	06	12	13	11/85	1000
92006018	CRITTENDON #1 TUBING "	06	12	13	11/85	0900
92013014	BAR X #5 175. 246. 17	06	12	_le	11/85	1000
92292010	BAR X #12 175. 246.17	06	12	6	11/85	1100
92293017	BAR X #13 175. 246.7	06	12	<u>13</u>	11/85	0800
93549015	BAR X #9	06	12	le	11/85	6900
9210:012	BAR X #6 175. 25 E. 11	<b>06</b>	12	3	12/85	6900

COMPANY: JERRA TESOURCES LUC, UT ACCOUNT #1/09/60 SUSPENSE DATE:
WELL NAME: BAR X LINIT#6
TELEPHONE CONTACT DOCUMENTATION  API #: 4301915025
CONTACT NAME: LANDA MOORE SEC, TWP, RNG: 11 7175 RRSE
CONTACT TELEPHONE NO.: 307-577-3303
SUBJECT: CHANSING, PZ SROM COMMINGLE DK-MR TO DKTA PRODUCTION
1984 THROUGH THE PRESENT WITH MRSN SI AND SHOWING
0'S FROM JAN 1984 thru the PRESENT.
TAD WILL SHOW BOTH ZONES.
(Use attachments if necessary)
RESULTS: MRSN 31 SINCE 1982
PER LINDA THE PRODUCTION SHE HAS BEEN REPORTING WAS
SROM DKTA. SHE IS AWARE THE NOW TAD WILL SHOW
BOTH ZONES.
(Use attachments if necessary)
CONTACTED BY: VC
DATE: 10-29-87

### LONE MOUNTAIN PRODUCTION COMPANY

P.O. BOX 3394 408 PETROLEUM BUILDING BILLINGS, MONTANA 59103-3394 (406) 245-5077

March 8, 1989



DIVISION OF OIL, GAS & MINING

DIVISION OF OIL, GAS & MINING STATE OF UTAH 355 W. North Temple 3 Triad Center, Suite 350 Salt Lake City, UT 84180

Re: Bar-X Unit

GRAND COUNTY, UTAH and MESA COUNTY, COLORADO

#### Gentlemen:

Following is a list of wells and well locations which make up the Utah portion of the Bar-X Unit. Change of operator for this unit was effective January 1, 1989.

019-150-27 Crittenden No.	.1	SE SE Section 12:	T17S-R25E, Grand Co., UT
019-15-22 Bar-X Unit No.	3	NE SW Section 12:	T17S-R25E, Grand Co., UT
019 -150 23 Bar-X Unit No.	4	NE NE Section 18:	T17S-R26E, Grand Co., UT
49 -15024 Bar-X Unit No.	<b>5</b> .	SE NE Section 17:	T17S-R26E, Grand Co., UT
019 - 15025 Bar-X Unit No.	6	SE NE Section 11:	T17S-R25E, Grand Co., UT
019 - 15 024 Bar-X Unit No.	7	NW NE Section 7:	T17S-R26E, Grand Co., UT
019-3049# Bar-X Unit NO.	8	NE NW Section 11:	T17S-R25E, Grand Co., UT
019 ~ 30597 Bar-X Unit No.	12	NW SE Section 8:	T17S-R26E, Grand Co., UT
019- 30598 Bar-X Unit No.	13	NW SW Section 7:	T17S-R26E, Grand Co., UT

Should you require any further information, please feel free to call.

Very truly yours,

Lone Mountain Production Company

Ynda Wan

Lynda Wilson

•		• .*		2.			4.
Form 3160-5 (November 1983) (Formerly 9-331)	DEPARTA	UN TO STATES MENT OF THE IN U OF LAND MANAGE		SUBMIT IN TRIF (Other instruction verse side)	7 re 5. Li	Expires Augustion	No. 1004-0135
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OIL CAR WELL NELL NELL	(X) OTHER		99 (	CT 26 1989		ar-X	
Lone Mountain	Production	Company	Ou	DIVISION OF GAS & MINING	j F	ederal	V B
408 Petroleum 4. focation or well i Bee also aprice 17 be At successes	Building, I Report focation of love i	P.O. Box 3394, B	illinge	MT 50103	10. P	lo. 6 Ima Ana Pada, d Ban-X	
1980' FNL, 6	58' FEL				11	MC., T., B., M., OR I	11-T17S-R25E
43-019-15 <b>9</b> 25		18. PLEVATIONS (Show who	ther pr. st. a	i, eta.)	12. č	eanea sec. Brand	
16.		propriate Box To India	ate Nature	of Notice, Report	, or Other [	Pala	·
	NOTICE OF INTENT	ION TO:	1		UBSEQUENT RU	PORT OF:	
PRACTURE TREAT  SHOOT OF ACIDIZE  REPAIR WELL  (Other) Commit  17 DESCRIBE PROPOSED of proposed work. I  bent to this work.)	ngle Produc	LETPLE COMPLETE LARGE PLANS LION  TON  ATTOMS Clearly state off pointy drilled, give subsurface	etinent detu r locations a		results of mul	ARPAINING VALUE OF ANALOGUE OF ANALOGUE OF ANALOGUE AND LOS	IBING TO
Lone Mountain commingle the tubing for li	ve been pro is install Dakota and fting fluid rders are c	cing dual comple duced into the s ing a lower pres Morrison. Comm s, thereby elimi urrently in effe s.	ame pipo sure lio ingling nating d	eline and shoune and hereby will allow hithe need to "h	ild have : requests gher gas	similar pro approval i velocities	essures. to s up the
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				·	DRN	RJF	
					/JRB	GLH	
					DTS	SLS	

MICROFILM 18 I bereby certify that the foregoing is true and correct SIGNED James G. Routson
(This space for Federal or State office nee) FILE TITLE Petroleum Engineer October 24 1989 ACCEPTED, BY THE STATE
OF UTAH DIVISION OF

APPROVED BY ________CORDITIONS OF APPROVAL, IF ANY: Federal approval of this action is required before commencing operations.

*See Instructions on Reverse Side

OIL, GAS, AND MINING

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, ficultions or fraudulent statements or representations as to any matter within its jurisdiction.

### LONE MOUNTAIN PRODUCTION COMPANY

P.O. BOX 3394 408 PETROLEUM BUILDING BILLINGS, MONTANA 59103-3394 (406) 245-5077



October 24, 1989

DIVISION OF OIL, GAS & MINING

Division of Oil, Gas & Mining State of Utah 355 W. North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180

#### Gentlemen:

Enclosed are Sundry Notices to commingle the Dakota and Morrison production on the Bar-X Unit Wells No. 6 and Crittenden No. 1.

Commingling will result in improved operating conditions and less waste of gas necessitated by blowing the wells to remove accumulated fluids from the wellbore.

Your expedient approval of these notices will be appreciated. We hope to get a rig and perform the work in mid-November.

If you have any question, please feel free to give me a call.

Very truly yours,

LONE MOUNTAIN PRODUCTION COMPANY

James G. Routson

JGR:tlm

Enclosures

#### SUBMIT IN TRIPLICATE: (Other instructions on reverse side)

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

EPORTS ON WELLS  Repen or plug back to a different recervoir.  T. UNIT AGREEMENT NAME  Bar-X  8. FARM OR LEASE NAME  Federal  9. WELL NO.  NO. 6  10. PIRLO AND FOOL, OR WILDCAT  Bar-X  11. SEC. T. B. M. OR BLE. AND  SURVEY OR AREA  SE NE Sec. 11: T175-R25E  12. COUNTY OR PARISM 18. STATE  OF Grand  UT  O Indicate Nature of Notice, Report, or Other Data  SUBSEQUENT REPORT OF:  WATER SHUT-OFF  PRACTURE TREATMENT  SHOUTING OR ACIDIZING  (Other)  (Note: Report results of multiple completion on Well  (Outpellion or Recompletion Report and Log form.)  Set MID INCIDENCE  (Other)  (Note: Report results of multiple completion on Well  (Outpellion or Recompletion Report and Log form.)  Set MID INCIDENCE  ABANDONMENT  AND AND OF MID INCIDENCE  (Other)
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A, Billings, Montana 59103  A, Billings, Montana 59103  No. 6  10. FIRLD AND FOOL, OR WILDCAT Bar-X  11. ABC., T., R., M., OR BLE. AND SUBVET OR AREA  SE NE Sec. 11: T17S-R25E  12. COUNTY OR PARISM 18. STATE  Grand  UT  O Indicate Nature of Notice, Report, or Other Data  SUBSEQUENT ABPORT OF:  WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING  (Other)  (NOTE: Report results of multiple completion on Well (Completion or Recompletion Report and Log form.)  MATERING CASING ABANDONMENT*  X  (Other)
No. 6  Indicate Nature of Notice, Report, or Other Data  Subsequent asport of:  WATER SHUT-OFF FRACTURE TREATMENT SHOUTING OR ACIDIZING (Other) (Note: Report results of multiple completion on Well (Other) (Note: Report recompletion Report and Log form.)  Water all pertinent details. and give pertinent dates. Including estimated date of starting nay subsurface locations and measured and trile vertical depths for all markers and zones pertinents.
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OF Grand UT  o Indicate Nature of Notice, Report, or Other Data  subsequent appear op:  water shut-opp practure treatment shouting or acidizing (Other) (Note: Report results of multiple completion on Well (Completion or Recompletion Report and Log form.)  subsurface locations and measured and trile vertical depths for all markers and zones perti-
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ALTERING CASING  SHOUTING OR ACIDIZING  (Other)  (Note: Report results of multiple completion on Well  (Completion or Recompletion Report and Log form.)  ate all pertinent details, and give pertinent dates, including estimated date of starting any subsurface locations and measured and true vertical depths for all markers and zones pertinent.
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PRACTURE TREATMENT  SHOUTING OR ACIDIZING  (Other)  (Note: Report results of multiple completion on Well  ('outpletion or Recompletion Report and Log form.)  sternil pertinent defails, and give pertinent dates, including estimated date of starting any subsurface locations and measured and true vertical depths for all markers and zones pertinents.
ABANDONMENT*  (Other)  (Note: Report results of multiple completion on Well (nonpletion or Recompletion Report and Log form.)  ate all pertinent details, and give pertinent dates, including estimated date of starting any subsurface locations and measured and true vertical depths for all markers and zones pertinent details.
(Other)  (Note: Report results of multiple completion on Well (None): Report results of multiple completion on Well (nonpletion or Recompletion Report and Log form.)  ate all pertinent details, and give pertinent dates, including estimated date of starting any subsurface locations and measured and true vertical depths for all markers and zones pertinent details.
(Other) (Note: Report results of multiple completion on Well (Completion or Recompletion Report and Log form.)  are all pertinent details, and give pertinent dates, including estimated date of starting any subsurface locations and measured and true vertical depths for all markers and zones pertinent depths dep
('ompletion or Recompletion Report and Log formulate all pertinent defails, and give pertinent dates, including estimated date of starting any subsurface locations and measured and true vertical depths for all markers and zones pertined.
ngle was filed with the State of Utah on October 24, y the State on November 1, 1989 (copy attached).
FED 13 (TO)

Form 3160-5 (November 1983) (Formerly 9-331)	UN E S' DEPARTMENT OF BUREAU OF LAND		Other instruction on R verve aide)	Budget Bureon No. Expires August 31.  5. LEABE DESIGNATION AND	1985
	ORY NOTICES AND		FORMULE	o ir Indian, allorres on	TRIDE NAME
OIL CAR VELL	X)	31	OCT 26 1989	Bar-X	
	roduction Company	·	DIVISION OF OIL, GAS & MINING	Federal	
408 Petroleum Bo 4. Bocarios or well (Re Bec also opines 17 belos At surface	uilding, P.O. Box 3	3394. Billing	is. MT 59103	No. 6	LUCAT
1980' FNL, 658	' FEL	•		Ban-X	
14 FERNIST NO. 43-019-15-25	5321 DF	(Bhow whether or, a	F, CM, eta.)		I-T17S-R25E ::::::::::::::::::::::::::::::::::::
16.	Check Appropriate Box	To Indicate Hal	ure of Notice, Report, o	or Other Data	
No	TICE OF INTENTION TO:		448	BEQUENT REPORT OF:	
TEST WATER BHUT OFF PRACTURE THEAT SHOOT OR ACIDIZE	MULTIPLE COMPLE	1 1	WATER BHUT-OFF FRACTURE TREATMENT BHOOTING OR AUDIZING	BEPAIRING WELL, ALTERING CABING ABANDONMENT	1
10 ther) Comming 17 best and endroise on a proposed work. If y nest to this work.)		Marte all pertinoit de submirace higation	Completion of Reco	ults of multiple completion on V supletion Report and I og form I ites, including estimated date of rites! Jeptus for all markers and	
Both zones have Lone Mountain i commingle the D tubing for lift	e been produced int s installing a low Dakota and Morrison ing fluids, thereb ders are currently	o the same p er pressure . Commingli y eliminatin	ipeline and should line and hereby re ng will allow high a the need to "blo	and Dakota since 195 d have similar press equests approval to her gas velocities u ow" the well as ofte o the Bar-X Unit, as	ures. p the n.
	<u></u>	OPY			
	O		187		
	,	·		FES 1 8 1992	
	,		0!	DERSONOF LGAS & MINERO	
n. I bereby certify that the	foregoing is true and correct	i kudirik direktor di maker direktorianian da ugur ga	Appendix de reference representativos de servicios de servicio d	The stand of discretical colored by returns along the print paths arrange states and analysis of the path along	-
BIGNED James G.	Routson	rms Petro	leum Engineer	DATE October	24, 1989
APPROVED BY	POVAL. IW ANY	71TI.W	ACCE	PTED BY THE STA	TE
	al of this action		OIL	UTAH DIVISION OF , GAS, AND MINING ) // - / - 89	<b>i</b>

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, ficultions or fraudulent statements or representations as to any matter within its jurisdiction.

```
api number:
                   4301915025
producing zone:
                   DK-MR
producing entity:
                   455
                           BAR X UNIT/DK-MR B
                   BAR X #6
well name:
                           LONE MTN PRODUCTION CO
operator:
                   N7210
field:
                   160
                           BAR X
                  township: 17.0
                                   S range: 25.0
                                                            \mathbf{E}
section: 11
qtr-qtr: SENE
                  meridian:
cumulative oil prod:
cumulative gas prod:
cumulative wtr prod:
alternative address code:
enter 'c' if production is confidential:
enter date confidential expires (yyddmm):
enter 'x' to delete record:
opt: 47 api: 4301915025 zone: DK-MR date(yymm): enty:
                                                              acct:
                                                              menu: option 00
                     * * * basic well information * * *
 03/05/92
          4301915025 prod zone: DK-MR sec
                                                                range
                                                                        qr-qr
                                                      twnshp
api num:
                                                                25.0 E
                                                                         SENE
          455 ( BAR X UNIT/DK-MR B
                                                 11
                                                      17.0 S
well name: BAR X #6
operator: N7210 ( LONE MTN PRODUCTION CO
                                                     meridian: S
field:
           160 ( BAR X
                     confidential expires:
                                                     alt addr flag:
confidential flag:
           * * * application to drill, deepen, or plug back * * *
                                                                    GW
                                lease type: 1
                                                     well type:
lease number: SL-064806_
              1980 FNL 0658 FEL unit name: BAR X_
surface loc:
                                                     proposed zone:
prod zone loc: 1980 FNL 0658 FEL_
                                  depth:
                                                     auth code:
                                              560507
              5321'
                                  apd date:
       * * * completion report information * * *
                                                     date recd:
                                                     total depth: 3900'
                                  compl date: 891209
              560414
spud date:
producing intervals: 3078-3276'
                                                     well status:
                                                                    PGW
              1980 FNL 0658 FEL first prod:
bottom hole:
                                                     gas/oil ratio:
                                  24hr water:
24hr oil:
                24hr gas:
```

920305 TA'D BOTH DKTA & MRSN PZ:COMMINGLED EFF 12/9/89:

opt: 48 api: 4301915025 zone: DK-MR date(yymm): ____ enty: ____ acct: ___

* * * basic well information * * *

03/05/92

* * * well comments * * *

menu: option 00

api gravity:

03/05/92 DETAIL WELL DATA menu: opt 00 prod zone: DKTA twnshp api num: 4301915025 sec range qr-qr 11 17.0 S 25.0 E SENE entity: 455 : BAR X UNIT/DK-MR B

well name: BAR X #6

operator: N7210 : LONE MTN PRODUCTION CO meridian: S

field: 160 : BAR X

confidential flag: confidential expires: alt addr flag:

* * * application to drill, deepen, or plug back * * *

lease number: SL-064806 lease type: 1 well type: GW

surface loc: 1980 FNL 0658 FEL unit name: BAR X

prod zone loc: 1980 FNL 0658 FEL depth: proposed zone:

elevation: 5321' apd date: 560507 auth code: * * * completion report information * * * date recd:

spud date: 560414 compl date: 560502 total depth: 3900'

producing intervals: 3078-3193'

bottom hole: 1980 FNL 0658 FEL first prod: 561201 well status: TA 24hr oil: 24hr gas: 15000 24hr water: gas/oil ratio:

* * well comments: question 24m water. question apri gravity:

7871029 ORIG ENTERED AS COMMINGLE DK-MR, CHGD TO DUAL COMPL IN DKTA & MRSN: PROD WAS IN DKTA & MRSN IS SGW:871026 1986 CUM BASE ADJUSTED:890315 CHG OF OPER FR N0960 EFF 1/1/89:920305 COMMINGLED DK-MR EFF 12/9/89 SEE ALSO: opt: 21 api: 4301915025 zone: DKTA date(yymm): enty acct:

DATA menu: opt 00 DETAIL WELL 03/05/92 sec range qr-qr prod zone: MRSN twnshp api num: 4301915025 11 17.0 S 25.0 E SENE 455 : BAR X UNIT/DK-MR B

well name: BAR X #6

operator: N7210 : LONE MTN PRODUCTION CO meridian: S

field: 160 : BAR X

confidential flag: confidential expires: alt addr flag:

* * * application to drill, deepen, or plug back * * *
er: SL-064806 lease type: 1 well type: GW

lease number: SL-064806 lease type: 1 we surface loc: 1980 FNL 0658 FEL unit name: BAR X

prod zone loc: 1980 FNL 0658 FEL depth: proposed zone:

elevation: 5321' apd date: 560507 auth code: * * * completion report information * * * date recd:

spud date: 560414 compl date: 560502 total depth: 3900'

producing intervals: 3183-3276'

bottom hole: 1980 FNL 0658 FEL first prod: 571201 well status: TA 24hr oil: 24hr gas: 24hr water: gas/oil ratio:

* * well comments: api gravity:

ORIG ENTERED AS DK-MR COMMINGLED, SHD HAVE BEEN DUAL COMPL IN DKTA & MRSN: 871029 1986 CUM BASE ADJ:880208 1986 CUM BASE ADJ:890315 CHG OF OPER FR N0960

EFF 1/1/89:920305 COMMINGLED DK-MR EFF 12/9/89 SEE ALSO:

opt: 21 api: 4301915025 zone: MRSN date(yymm): enty acct: